

#6. 다음 수식을 가능한 한 단순하게 표현하라

$$(1) \frac{3x^2y}{(3xy)^3} = \frac{3x^2y}{27x^3y^3}$$

$$= \frac{1}{9xy^2} = \frac{1}{9}x^{-1}y^{-2}$$

$$(2) \sqrt{a^2b^8c^4} = \sqrt{(ab^4c^2)^2} \\ = ab^4c^2$$

$$(3) \left(\frac{yz}{x^3}\right)^{\frac{1}{3}} y^2 z = \frac{y^{\frac{1}{3}} z^{\frac{1}{3}}}{x} y^2 z$$

$$= \frac{y^{\frac{1}{3}} z^{\frac{4}{3}}}{x} = x^{-1} y^{\frac{1}{3}} z^{\frac{4}{3}}$$

$$(4) \sqrt[3]{a^2b} = (a^2b)^{\frac{1}{3}} \\ = a^{\frac{2}{3}} b^{\frac{1}{3}}$$